

AMENDMENTS

Please amend the above-identified application as follows:

In the Claims

Cancel claims 1, 3-4, 7-26 and 28-53 without prejudice, waiver, or disclaimer.

Please amend the following claims as indicated, by deleting the matter in brackets (“[]”) and adding the underlined matter (“ ”).

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2. (Amended) The soil and groundwater decontamination system of claim [1] ~~27~~,
further comprising:
a catalyst supply means for supplying a catalyst to said injection means[, wherein said
product and said catalyst are combined as said product and said catalyst are injected into the
contaminated subsurface zone].

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3. ~~28~~ (Twice Amended) The soil and groundwater decontamination system of claim [1]
~~29~~, further comprising:
a phase separator means for separation of multiple phases extracted through said
extraction means [drop tube], said multiple phases comprising a gas phase and a liquid phase,
wherein said phase separator means is in fluid communication with said extraction means [drop
tube].

4. (Amended) The soil and groundwater decontamination system of claim [1],
further comprising:

B3 a contaminant filter means for treating extracted groundwater and vapor products, said
contaminant filter means being in fluid communication with said [drop tube] extraction means [,
wherein said contaminant filter configured to treat extracted groundwater and vapor products to
produce an environmentally suitable product].

✓
27. (Twice Amended) A soil and groundwater decontamination system for
decontaminating a contaminated subsurface zone, the contaminated subsurface zone having a
groundwater level below which is a groundwater zone and above which is a vadose zone, the
vadose zone and the groundwater level having a capillary fringe therebetween, comprising:

[a product supply means for introducing a product into said contaminated subsurface
zone] an injection means for introducing a fluid into said contaminated subsurface zone, said
fluid
~~product~~ being able to react with subsurface contaminant and produce a reaction end product;

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B4 [a means for introducing said product into a contaminated subsurface zone, said product
being able to react with the subsurface contaminants and produce a reaction end product] a fluid
pumping means for delivering said fluid to said injection means;

a vacuum means for creating and maintaining a vacuum in at least a portion of said
system;

an extraction means for extracting [a] contaminant from the contaminated subsurface
zone, said extraction means being in fluid communication with said vacuum means, said